LOCKHEED AIRCRAFT CORP.	ENGINE	2/08/21 : CIA-RDP89B00980F0002  ENGINEERING STUDY   CHANGE PROPOSAL   X			N, A. C170		
DATE 27 January 1964	AFFECT	s:	WSPO		PRO	JECT X	
NAME OF MAJOR COMPONENT 814 B Transponder	PART OR LOWE	ST SUBASSEA	MBLY	ŗ PA	RT NO. &	MODEL OF	R TYPE
TITLE OF PROPOSAL: AIR IF	RAFFIC CONTROL	SYSTEM					
NATURE OF PROPOSAL:							
	SEE PAGE 2						
## - 12							
en e		,					
					·		
ES ESTIMATED COST AND TIME		b				Ş.	
FC	JIRED : OR PARTS :	See Page	•			Ÿ	
ADDITIONAL FUNDING REQU	JIRED : OR PARTS :	See Page	•				
ADDITIONAL FUNDING REQUESTIMATED COST FOR KITS ADDITIONAL FUNDING REQUESTEDS AFFECTED BY PROPOSAL:  SAFETY MISSION PERFORM OPER	JIRED : OR PARTS: JIRED :	See Page ( See Page ( WEIGHT OR TO SU EQU	OLS & PPORT	MAINTE- NANCE PROCEDURE	SERVICE LIFE	FLIGHT MANUAL	MAINTE- NANCE MANUAL
ADDITIONAL FUNDING REQUESTIONAL FUNDING REQUESTIONAL FUNDING REQUESTIONAL FUNDING REQUESTIONAL FUNDING REQUESTIONAL PROPERTY MISSION PERFORMANCE PROCUESTIVENESS PERFORMANCE PROCUESTIVENESS	JIRED :  OR PARTS:  JIRED :  ATING INTER-CHANGE ABILITY	See Page (	OLS &	NANCE	SERVICE	FLIGHT	NANCE
ES ADDITIONAL FUNDING REQUESTIONAL FUNDING REQUESTIONAL FUNDING REQUESTIONAL FUNDING REQUEST.  SAFETY MISSION PERFORM OPER. TIVENESS PERFORMANCE PROCEST. MAN/HRS. REQ'D. TO ACCOMESOURCE OF PARTS FOR KIT LAC	JIRED :  OR PARTS:  JIRED :  ATING INTER- CHANGE ABILITY  APLISH CHANGE	See Page ( See Page ( WEIGHT OR TO SU WEIGHT A SU BALANCE EQU IN FIELD AVAILAB	OLS & PPORT INPARENT X	NANCE PROCEDURE	SERVICE LIFE	FLIGHT MANUAL	MANUA
ADDITIONAL FUNDING REQUESTIMATED COST FOR KITS ADDITIONAL FUNDING REQUESTION ADDITIONAL FUNDING REQUESTS.  SAFETY MISSION PERFORM OPER OPER OF PROCUES.  EST. MAN/HRS. REQ'D. TO ACCOMES SOURCE OF PARTS FOR KIT	JIRED :  OR PARTS:  JIRED :  ATING INTER- CHANGE ABILITY  APLISH CHANGE	See Page ( See Page ( WEIGHT OR TO SU WEIGHT A SU BALANCE EQU IN FIELD	OLS & PPORT IIPMENT   See Po	NANCE PROCEDURE	SERVICE LIFE	FLIGHT MANUAL	MANUA

TAC-170 %:

## NATURE OF PROPOSAL:

To provide an Air Traffic Control (ATC) transponder system compatible with military coded radar beacon equipment (Mark X (SLF)) operating in Military Mode 3 or Civil Mod A. The system consists of the following major components (Contractor furnished except as noted).

- 1. Wilcox 814B Transponder (4096 available codes on Mode A or C, with altitude reporting capabilities from zero to 100,000 feet).
- 2. Wilcox 88372-100 Shock Mount for Ell B Transponder.
- 3. Wilcox 97644-100 Control Head (4000 Codes on Mode A or C plus self test switch and light).
- 4. Wilcox 758 A Function Tester.
- 5. AS-133/AFX Antenna: (GFE).

The WSPO transponder will be contained in a pressure box installed in the R.H. cheek erea. The box will be connected to the Q-Bay to maintain pressure. A small fan will supply cooling air. The Function Tester will be located in the vicinity of the pressure box. The control head will be installed in the L.H. console just aft of the ARC-34 controller. The antenna will be forward of the ARC-34 antenna under the cockpit.

The APK-25 will be removed from 349. The ATC transponder will be installed in the Q-Bay on the upper rack in place of the AFX-25 Coder also the existing equipment on the rack will require relocation. The Control head will be located in place of the APX-25 control heads on the R.H. roomsole. The existing antenna will be used.

The ATC transponder system is installed in 360 and 389. However, the 814 A transponder is being used with the corresponding 64 code control head. The 814 A will be modified to the 814 B configuration to provide 4096 codes with altitude reporting capabilities. The 64 code control heads can not be economically reworked to the 4096 code configuration. Ships wiring does not provide for the 4096 codes or the altitude reporting capabilities. These ships will be reworked to incorporate the modified transponder and new type control head. Although the Wilcox (16 A antennas are installed they can be replaced with the AS133/APX antenna when existing stock of 716 A's is exhausted.

Ships 388 and 394 will have the ATC transponder installed in lieu of the AFX-6 in the R.H. cheek. The existing AS-133/AFX antenna will be used.

The project airplanes will have the ATC transponder and function tester installed on the old continuous ignition inverter shelf. The ADF power supply (F-14A) now on the shelf will have to be relocated and changed to the transistorized type (DV-14A). This will require WRAMA to segregate currently interchangeable stock. The antenna and control head will be installed similar to the WSFO cirplanes. Wiring provisions for both Customers will be installed for altitude sensor signals to be used when mode C becomes operational. Space provisions for a Kollsman Computer-Encoder (P/N KS-157) will be located in the main landing year wheel. The Kollsman Computer-Encoder, although being considered at this time for space provision, may nappheved For Release 2002/08/21t: CIA-RDP89B00980R000200470075-3 becomes operational.

Next 2 Page(s) In Document Exempt

## Approved For Release 2002/08/21 : CIA-RDP89B00980R000200170075-3

LAC-170 Page 6 of 6

Funding under preceeding contracts is adequate continent upon fund for second half of FY 164.

## \*Note:

Due to a revised vendor proposed which will be effective 1 Tebrury 1960, the total price may be reduced by \$19,400 as follow:

Cust. #1 Mts -

Cust. #2 Kits -

Spares (Common)

25X1